

EXHIBIT A
PATENTS and PATENT APPLICATIONS
02/26/02



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Title	Sarnoff Case Number	Inventor(s)	Status	Application Number	Filing Date	Patent Number	Issue Date	Origin
Monolithic Semiconductor Light Emitter and Amplifier	10579	Carlson	Issued	07632263	12/21/90	5,131,001	7/14/92	US
High Power Semiconductor Laser Diode	11611	Abeles Connolly Garbuzov	Issued	08/757883	11/27/96	5,818,860	10/6/98	US
Semiconductor Distributed Feedback Laser Diode	11698	Abeles Connolly Morris	Issued	08/524946	9/8/96	5,619,523	4/8/97	US
Light Emitting Semiconductor Device	11959A	Alphonse	Pending	09/205575	12/4/98			US
Electroluminescent Diode with Mode Expander	11961	Alphonse Andrews Menna	Issued	08/946180	10/7/97	6,034,380	3/7/00	US
Polarization-Independent Semiconductor Optical Amplifier	11983	Alphonse	Issued	09/159141	9/23/98	6,175,446	1/16/01	US
Wide Stripe Distributed Bragg Reflector Lasers with Improved Angular and Spectral Characteristics	12709	Connolly DiMarco Garbuzov Khalfin	Pending	09/468396	12/20/99			US

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Master Oscillator Granting Coupled Power Amplifier with Angles Amplifier Section	12709A	Connolly DiMarco Garbuzov Khalfin	Pending	09/546086	4/10/00			US
High Power Semiconductor Light Source	12797	Alphonse	Issued	09/158847	9/23/98	6,339,606		US
Phase Conjugating Structure for Mode Matching in Super Luminescent Diode Cavities	12977	Burstyn	Pending	09/566,276	5/5/00			US
Superluminescent Diode And Optical Amplifier With Extended Bandwidth	13038	Alphonse	Issued	09/159148	9/23/98	6,184,542	2/16/01	US
Method for Controlling Current Spreading in Semiconductor Laser Diodes	13206	Connolly DiMarco	Pending	60/164864	11/12/99			US
Semiconductor Diode Lasers with Thermal Sensor Control of the Active Region	13505	Garbuzov Maigorov Khalfin Connolly	Issued	09/430643	10/29/99	6,301,279	2/16/01	US

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Temperature Integrated High Power Semiconductor Laser	13764	Alphonse	Pending	60/161213	10/22/99			US
				09/571970	8/16/00			
Mode Expander with Co-Directional Grating	13764A	Alphonse	Pending	09/571211	5/16/00			US
Semiconductor Diode Lasers with Improved Beam Divergence	13858	Garbuzov Khalfin Connolly	Pending	09/553551	4/20/00			US
High-Power Single Mode Semiconductor Laser Diode	13860	Garbuzov Khalfin	Pending	60/176913	1/20/00			US
				09/585032	6/1/00			